

MAR. 4. 2008 4:33PM ENZO BIOCHEM

RECEIVED
CENTRAL FAX CENTER NO. 4906 P. 4

Dakai Liu and Elazar Rabbani

MAR 04 2008

Serial No. 09/046,840

Filed: March 24, 1998

Page 3 [Amendment Under 37 C.F.R. §1.115 (In Reply To The December 21, 2007 Office Communication)] – March 4, 2008

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-84 (canceled)

85. (Previously Presented) A first vector comprising:

- i) retroviral sequences;
- ii) retroviral packaging component or components;
- iii) non-retroviral viral vector sequences; and
- iv) nucleic acid sequences coding for an exogenous gene or exogenous

nucleic acid sequence;

wherein when introduced into a packaging cell said first vector produces a second viral vector comprising:

- (a) said non-retroviral viral vector sequences; and
- (b) said exogenous gene or exogenous nucleic acid sequences,

wherein said second viral vector lacks said retroviral sequences (i); and

wherein said packaging cell provides one or more packaging components for said second viral vector.

86. (Previously Presented) The first vector of claim 85, wherein said retroviral sequences (i) comprise one or more Long Terminal Repeat (LTR) sequences.

87. (Previously Presented) The first vector of claim 85, wherein said retroviral packaging component or components (ii) comprise retroviral proteins.

Enz-56(D3)

Dakai Liu and Elazar Rabbani

Serial No. 09/046,840

Filed: March 24, 1998

Page 4 [Amendment Under 37 C.F.R. § 1.115 (In Reply To The December 21, 2007 Office Communication)] – March 4, 2008

88. (Previously Presented) The first vector of claim 87, wherein said retroviral proteins are part of a surface or envelope of said first vector.

89. (Previously Presented) The first vector of claim 85, wherein said retroviral packaging component or components (ii) comprise at least two different retroviral proteins.

90. (Previously Presented) The first vector of claim 85, wherein said non-retroviral viral vector sequences (iii) comprise adeno-associated virus (AAV) sequences.

91. (Previously Presented) The first vector of claim 85, wherein said adeno-associated virus (AAV) sequences comprise Inverted Terminal Repeat (ITR) sequences.

92. (Previously Presented) The first vector of claim 85, wherein said second viral vector further comprises one or more promoters, or one or more enhancer regions, or an integration segment or a terminator.

93. (Previously Presented) The first vector of claim 85, wherein said second viral vector further comprises a combination of any or all of one or more promoters, one or more enhancer regions, an integration segment or a terminator.

94. (Previously Presented) The first vector of claim 85, wherein said exogenous gene or exogenous nucleic acid sequences code for a protein or an antisense sequence.

Enz-56(D3)

Dakai Liu and Elazar Rabbani

Serial No. 09/046,840

Filed: March 24, 1998

Page 5 [Amendment Under 37 C.F.R. §1.115 (In Reply To The December 21, 2007 Office Communication)] – March 4, 2008

95. (Previously Presented) A packaging cell of claim 85, wherein said packaging cell comprises a receptor for said first vector.

96. (Previously Presented) A packaging cell of claim 85, wherein said packaging cell lacks a receptor for said first vector.

97. (Previously Presented) A packaging cell of claim 85, wherein said packaging cell comprises a receptor for said second vector.

98. (Previously Presented) A packaging cell of claim 85, wherein said packaging cell lacks a receptor for said second vector.

99. (Previously Presented) A packaging cell of claim 85, wherein said packaging cell comprises a receptor for said first vector and a receptor for said second vector.

100. (Previously Presented) A packaging cell of claim 85, wherein said packaging cell lacks a receptor for said first vector and lacks a receptor for said second vector.

101. (Previously Presented) The packaging cell of claim 85, wherein said packaging cell is derived from NIH 3T3, U937, H9 or 293 cell lines.

102. (Previously Presented) The packaging cell of claim 85, wherein said packaging components for said second viral vector are derived from sequences stably integrated into a chromosome or chromosomes of said packaging cell.

Enz-56(D3)

Dakai Liu and Elazar Rabbani

Serial No. 09/046,840

Filed: March 24, 1998

Page 6 [Amendment Under 37 C.F.R. §1.115 (In Reply To The December 21, 2007 Office Communication)] – March 4, 2008

103. (Previously Presented) The packaging cell of claim 85, wherein said packaging components for said second viral vector are derived from transient expression of non-integrated nucleic acid sequences.

104-110 (Canceled)

111. (Previously Presented) A packaging cell which comprises a first vector comprising:

- i) retroviral sequences;
- ii) retroviral packaging component or components;
- iii) non-retroviral viral vector sequences; and
- iv) nucleic acid sequences coding for an exogenous gene or exogenous nucleic acid sequence;

wherein said first vector produces a second viral vector comprising:

- (a) said non-retroviral viral vector sequences; and
- (b) said exogenous gene or exogenous nucleic acid sequences; and

wherein said packaging cell: (i) lacks a receptor for said first vector, and (ii) provides one or more packaging components for said second viral vector.

112. (Previously Presented) A packaging cell which comprises a first vector comprising:

- i) retroviral sequences;
- ii) retroviral packaging component or components;
- iii) non-retroviral viral vector sequences; and
- iv) nucleic acid sequences coding for an exogenous gene or exogenous nucleic acid sequence;

wherein said first vector produces a second viral vector comprising:

Enz-56(D3)

Dakai Liu and Elazar Rabbani

Serial No. 09/046,840

Filed: March 24, 1998

Page 7 [Amendment Under 37 C.F.R. §1.115 (In Reply To The December 21, 2007 Office Communication)] – March 4, 2008

(a) said non-retroviral viral vector sequences; and
(b) said exogenous gene or exogenous nucleic acid sequences, and
wherein said packaging cell (i) lacks a receptor for said second vector, and (ii)
provides one or more packaging components for said second viral vector.

113. (Previously Presented) A packaging cell which comprises a first vector comprising:

i) retroviral sequences;
ii) retroviral packaging component or components;
iii) non-retroviral viral vector sequences; and
iv) nucleic acid sequences coding for an exogenous gene or exogenous nucleic acid sequence;

wherein said first vector produces a second viral vector comprising:

(a) said non-retroviral viral vector sequences; and
(b) said exogenous gene or exogenous nucleic acid sequences; and
wherein said packaging cell (i) lacks a receptor for (a) said first vector, and
(b) said second vector, and (ii) provides one or more packaging components for said second viral vector.

* * * * *

Enz-56(D3)